

# Operator's Manual – Beretta PM12S

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## **1.....DESCRIPTION AND FEATURES**

### **1a...Identification**

The Beretta Model 12S, cal. 9 mm. Parabellum Sub-machine Gun, is a «straight blowback» weapon with semi and full automatic fire capabilities.



Makers:  
Fabbrica d'Armi P. Beretta S.p.A.  
25063 Gardone Valtrompia (Brescia) – Italy  
Type: Calibre 9 mm. Parabellum Sub-machine Gun  
Model: 12S  
Material denomination: P.M. Cal. 9 Parabellum  
Factory mark: P.B.



Weapon and recommended accessories:  
PM 12S + Nr. 2  
32/rds  
magazines  
+ front sight  
regulator tool  
+ normal, or  
10 rd strip  
charging  
appliance  
+ sling.

### **1b...Use**

The Beretta Model 12S Sub-Machine Gun, due to its simplicity of construction and operation, special safety provisions, limited weight and volume, is particularly suitable for use:

- in built-up populated areas and jungle combat conditions
- in armored and/or mechanized troops operations
- by special units
- in anti-riots and police operations.

### 1c...Operation

The 12S Sub-machine Gun is an automatic «blowback» weapon which has both semiautomatic and full-automatic fire capabilities. Upon firing, the combustion of the powder inside the cartridge case develops, in the chamber, a pressure which fires the bullet and also propels the bolt backwards.

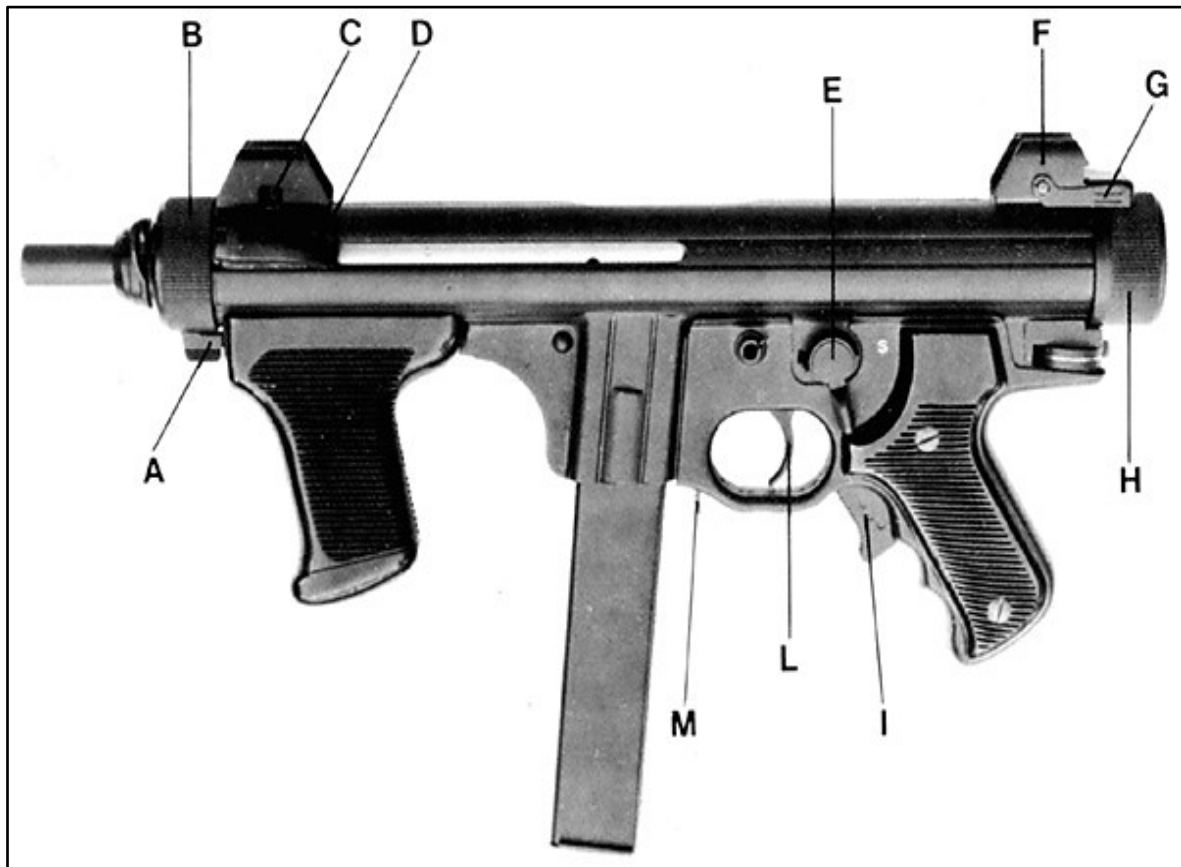
The barrel in the 12S Sub-machine Gun is inserted within the bolt. This unique characteristic makes the weapon very compact and minimizes the upward movement of the muzzle during automatic firing.

The 12S Sub-machine Gun fires in an «open bolt» position. In its forward movement, the bolt ejects the cartridge from the magazine into the chamber.

The fixed firing pin which protrudes from the bolt head, fires the bullet by striking the primer. Once fired, the bolt moves backwards with the empty cartridge case engaged by the extractor hook.

On hitting against the fired ejector, the empty case is forced through the ejector opening.

### 1d...Main parts



- A** Front cap catch - **G** Rear cap catch
- B** Front cap - **H** Rear cap
- C** Front sight - **I** Automatic safety
- D** Cocking handle - **L** Trigger
- E** Selector-safety - **M** Magazine latch
- F** Rear sight

## **1e...Devices**

The 12S Sub-machine Gun is provided with:

- closing device consisting of the telescopic bolt (blowback) and the recoil spring
- firing device consisting of: sear mechanism percussion mechanism
- extraction and ejection device consisting of: extractor (extractor hook) fixed ejector
- three-position selector-safety device: ordinary safety - semiautomatic fire - full automatic fire, controlled by a single lever. The ordinary safety immobilizes the automatic safety on the grip which, in turn, blocks the trigger
- the automatic safety device on the grip which blocks the trigger and prevents the opening of the bolt by means of the bolt stop tooth
- aiming device consisting of a two-position rear sight (up to 100 meters - up to 200 meters) and a front sight adjustable for elevation and windage
- folding stock.

## **1f...Technical data**

Operation: Full automatic or semi-automatic: the weapon fires from an open bolt position.

System of operation: Blowback

Caliber: 9 mm. Parabellum

Ammunition: 9 mm. Parabellum NATO standard

Muzzle Velocity ( $V_{0,5}$ ): 430 m/sec. approx.

Bullet Energy ( $E_{0,5}$ ): 77 Kg/m. approx.

Cyclic rate of fire: 550/650 RPM

Length (metal stock folded): 418 mm.

Length (metal stock extended): 660 mm.

Barrel length: 200 mm.

Height (without magazine): 180 mm.

Height (with 32 round magazine): 244 mm.

Weight (without magazine): 3.2 Kg. approx.

32 round magazine weight (empty): 0.230 Kg. approx.

32 round magazine weight (full): 0.570 Kg. approx.

Barrel rifling: 6 R.H. grooves - pitch mm. 250

Rear sight Two positions for: up to 100m. - up to 200 m.

Front sight: Adjustable for elevation and windage

Line of sight: Length 285 mm.

Ordinary safety: Which blocks the trigger through the automatic safety.

Automatic safety: On the rear grip which immobilizes the trigger and blocks the bolt in a closed position.

Finish: With epoxy resins resistant to corrosion and wear. Black glossy plastic grips.

## **1g...Features**

### **SELECTOR**

The new selector allows for an extremely easy, precise and safe selection of three positions, namely: semi-automatic fire, full automatic fire and safety.

### **SIGHT**

This new device (considerably strengthened) which has a higher degree of precision in aimed fire and greatly increased accuracy, possesses the following advantages:

- the possibility of regulating the aim for ranges at 100 and 200 meters by means of a simple 90° rotation of the rear sight mechanism;
- the possibility of regulating the aim both in elevation and windage by adjustment of the front sight only.

#### REAR CAP CATCH

The introduction of the new rear cap catch has the important advantages of:

- greater maneuverability of the rear, cap and the catch itself, for purposes of both stripping and assembling;
- the provision of a lock in position for the catch indicating the exact degree of tightening required for safety in the weapons' performance.

Should the rear cap not be completely screwed on and locked in position, the catch would remain raised, immediately indicating faulty tightening and at the same time interfering with the alignment of the sights.

#### FOLDING STOCK

The new folding stock has a much more robust and functional butt plate. It has two catches which firmly lock it in either an «open» or «closed» position, making it more practical and allowing for greater firing precision.

#### SEAR BLOCK

The new system permits the elimination of a possible «double shot» when the selector is in the semi-automatic firing position. This is due to the disengagement of the trigger-ratchet which is effected only by the regulated movement of the sear block joint which, in turn, can occur only once the bolt has been released.

#### EPOXY RESIN FINISH

The exterior surfaces of the weapon which might be particularly liable to corrosion are well protected (after phosphate treatment) with a light coating of epoxy resin. This treatment gives the surfaces the best protection possible from outside elements.

## **2.....HOW TO USE**

Before use, check to see that the 12S Sub-machine Gun is perfectly clean and lightly oiled. The 12S Sub-machine Gun is used in the following way:

(BOLT IN A CLOSED POSITION)

- 1) Insert a full magazine.
- 2) Holding the weapon by its rear grip, pull the automatic safety. The manual (or ordinary) safety must not be turned on.
- 3) Pull back the bolt by means of the cocking handle until it remains open. The weapon is now ready to fire.
- 4) Always keeping the automatic safety pressed, pull the trigger. If the selector lever is in S position (semi-automatic), after having fired a shot the bolt remains in an open position.
- 5) Pull the trigger in order to fire again.
- 6) If, however, the selector lever is in R position (full automatic), the bolt automatically moves backwards and forwards and the weapon continues to fire as long as the trigger is kept pulled or the magazine contains rounds.

### **3.....ROUTINE MAINTENANCE**

#### **3a...Field-stripping**

Every time the weapon is used, or at least once a month, the cleaning of the 12S Sub-machine Gun's barrel and bolt is recommended. Proceed with its field-stripping in the following manner:

(BOLT IN A CLOSED POSITION)

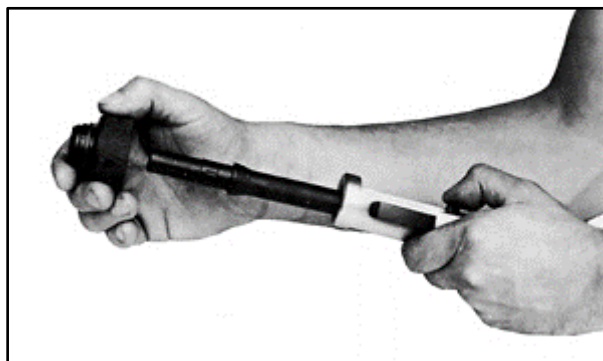
- Extract the magazine.
- Pulling the front cap catch, unscrew the cap.



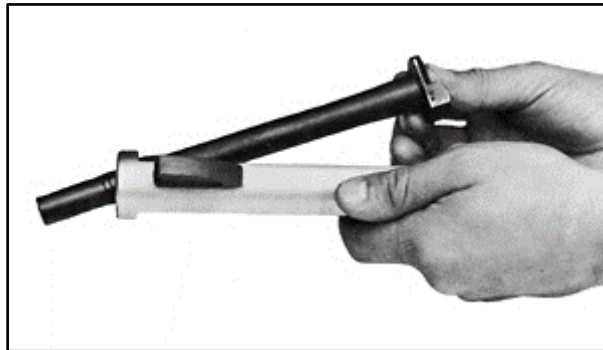
- Remove the front cap, barrel, bolt group from the receiver.



- Separate the front cap from the barrel



and hence the barrel from the bolt.



- Pulling the rear cap catch upwards, unscrew the rear cap.



- Remove the recoil spring from the rear part of the receiver.



- In order to assemble, repeat the above steps in an inverse sequence.

### **3b...Barrel-bolt cleaning**

Tools necessary for the cleaning of the 12S Sub-machine Gun:

- 2-Piece cleaning rod
- Swabbing brush
- Flannel cloths
- Detergent and protective oil

#### **BARREL CLEANING**

- Assemble the cleaning rod
- Screw the swabbing brush onto it
- Immerse the brush in detergent oil and pass it a few times through the barrel
- Insert a piece of flannelette into the eye of the cleaning rod and pass it through the barrel
- Keep replacing the cloth with a new piece until it emerges from the barrel absolutely clean
- Slightly soak this last clean piece of flannelette in protective oil and pass it again through the barrel

#### **BOLT CLEANING**

- Clean the bolt with a cloth soaked in detergent oil after removing combustion residues deposited on the front part of the bolt and in the extractor housing
- Put a thin coat of oil on the bolt itself

### **3c...Front sight adjustment**

The Beretta 12S Sub-machine Gun is supplied with a front sight adjustable for elevation and windage. In order to do so use the recommended special tool.

#### **ELEVATION**

Should the weapon shoot high, rotate the front sight in an anticlockwise direction using the special tool.

Rotate it in a clockwise direction should the weapon shoot low.

#### **WINDAGE**

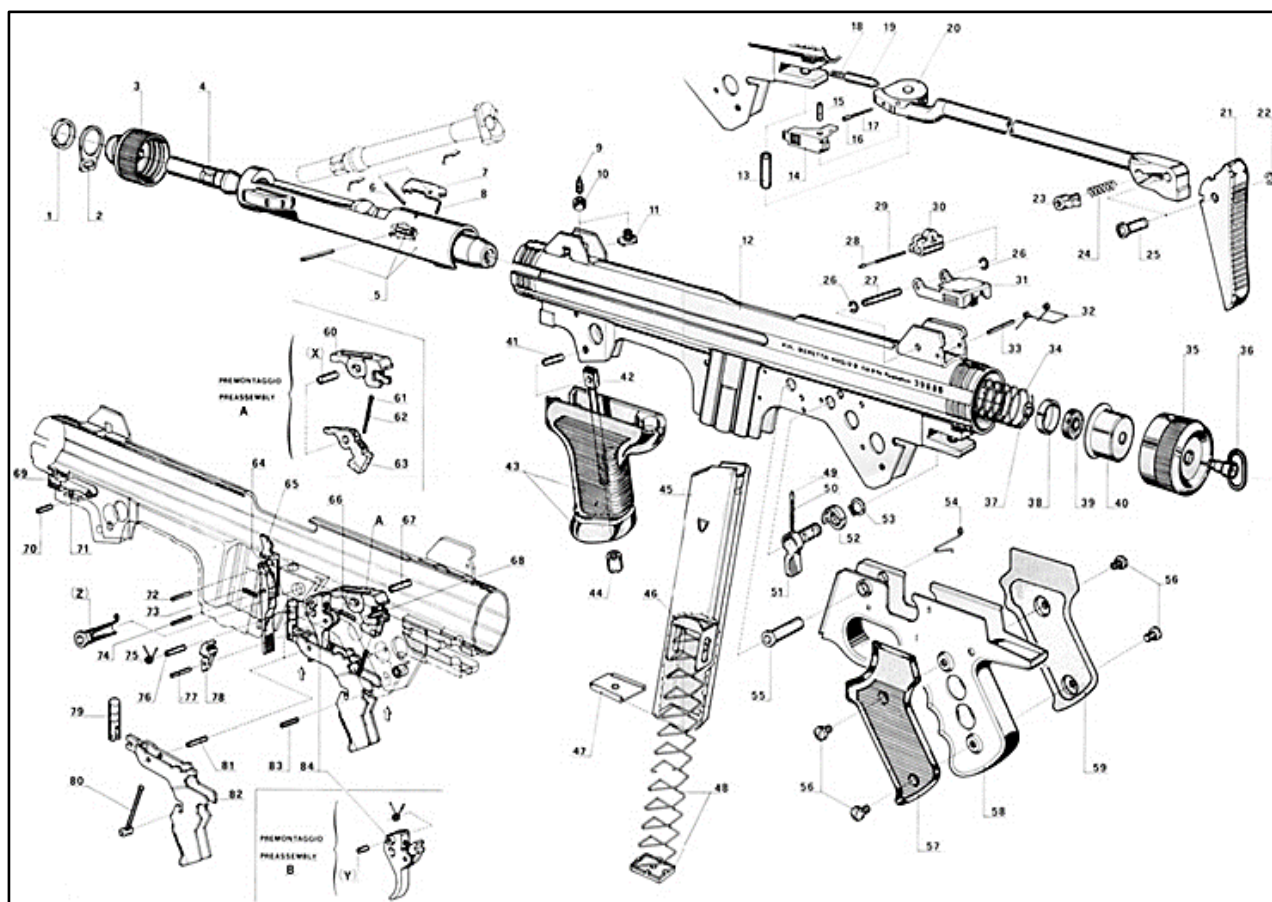
Using the same tool, unscrew the front sight strut bush nut and move it, with respect to the axis of the weapon:

- towards the right, if the weapon shoots to the right of the target
- towards the left, if the weapon shoots to the left of the target. Check the tightening of the front sight strut nut once adjustment has been made.



#### 4.....DRAWINGS AND WEAPON PARTS

##### 4a...Diagram showing all component parts



Parts Denominations		Cod.		Parts Denominations		Cod.
1	Front swivel snap ring . . . . .	50009	43	Front handle . . . . .	52950	
2	Front swivel . . . . .	53309	44	Front handle stay bolt nut . . . . .	52039	
3	Front cap . . . . .	52669	45	Magazine box (32 rounds) . . . . .	56269	
4	Barrel . . . . .	51464	46	Magazine follower . . . . .	52141	
5	Bolt . . . . .	78852	47	Magazine bottom . . . . .	52485	
6	Extractor pin . . . . .	55108	48	Magazine spring and plate . . . . .	78833	
7	Extractor . . . . .	52284	49	Selector-safety spring guide . . . . .	92198	
8	Extractor spring . . . . .	53999	50	Selector-safety spring . . . . .	90206	
9	Front sight . . . . .	53716	51	Selector-safety . . . . .	56183	
10	Front sight strut bush nut . . . . .	52025	52	Selector-safety ring . . . . .	52686	
11	Front sight strut bush	50753	53	Selector-safety snap ring . . . . .	97107	
12	Receiver . . . . .	76561	54	Rear handle bush spring	53761	
13	Folding stock pin . . . . .	92195	55	Rear handle bush . . . . .	50774	
14	Folding stock catch . . . . .	52977	56	Grip screw (4 pieces) . . . . .	57847	
15	Folding stock catch pin . . . . .	92172	57	Left grip . . . . .	52696	
16	Folding stock catch plunger . . . . .	92173	58	Rear handle . . . . .	77167	
17	Folding stock catch plunger spring . . . . .	90170	59	Right grip . . . . .	52695	
18	Folding stock articulation plunger spring	54524	60	Sear block articulation . . . . .	56347	
19	Folding stock articulation plunger .	55882	61	Sear block spring guide . . . . .	92188	
20	Folding stock . . . . .	76864	62	Sear block spring . . . . .	90193	
21	Butt plate . . . . .	51120	63	Sear block body . . . . .	51868	
22	Butt plate pin snap ring	50016	64	Magazine latch . . . . .	52638	
23	Butt plate release button . . . . .	52608	65	Ejector . . . . .	52189	
24	Butt plate release button spring	90205	66	Ratchet spring . . . . .	90215	
25	Butt plate pin . . . . .	54886	67	Sear block pin . . . . .	54856	
26	Rear sight pin snap ring (2 pieces) . . . . .	97030	68	Sear block limiting pin . . . . .	55386	
27	Rear sight pin . . . . .	54885	69	Front cap catch . . . . .	52958	
28	Rear sight spring strut	92197	70	Front cap catch pin . . . . .	55207	
29	Rear sight spring . . . . .	90213	71	Front cap catch spring . . . . .	54101	
30	Rear sight . . . . .	52027	72	Ejector pin . . . . .	56461	
31	Rear cap catch . . . . .	52980	73	Magazine latch spring . . . . .	54034	
32	Rear cap catch spring . . . . .	53762	74	Ejector and magazine latch pin	56461	
33	Rear cap catch spring pin . . . . .	92196	75	Trigger spring . . . . .	53763	
34	Recoil spring . . . . .	54422	76	Trigger pin . . . . .	55386	
35	Rear cap	52709	77	Ratchet pin . . . . .	92200	
36	Rear swivel	78665	78	Ratchet . . . . .	54617	
37	Shock absorber snap ring	50016	79	Bolt stop tooth . . . . .	76598	
38	Shock absorber housing	52018	80	Automatic safety spring strut . . . . .	78859	
39	Shock absorber	50008	81	Automatic safety and trigger limiting pin .	55386	
40	Recoil spring cap	56180	82	Automatic safety . . . . .	78936	
41	Front handle stay bolt pin	56641	83	Automatic safety limiting pin . . . . .	56461	
42	Front handle stay bolt . . . . .	57112	84	Trigger . . . . .	52705	